

COURSE NO. 4

THE EDGEWISE MECHANO-THERAPY

**TREATMENT OF CLASS II DIVISION 2 CASE (NONEXTRACTION THERAPY) &
EARLY ORTHOPEDIC TREATMENT FOR CLASS II CASES**

PLACE : 28/111 Top of Soi Jaeng Wattana - Parkkred 34, Jaeng Wattana Road, Parkkred,
Nonthaburi 11120

COURSE CONTENTS:

Day 1 - Wednesday

10.00 General Discussion of technical problems & Home work

General Discussion of technical problems

How to write your diagnosis? (Continue)

Treatment planning

Introduction to the edgewise mechanotherapy (cont.)

12.30 Lunch

14.00 The characteristics of Class II division 2

The design of the force system

Decision making: Ex- vs. Non-extraction Therapy (Repeat)

Revision of the first, second and third order bends

18.00 Class finish

Day 2 - Thursday

9.45 Demonstration of the Auxiliaries used in our technique (Cont.)

Expansion plate, Nance Holding Arch

Rapid palatal expander (Biedermann-Hyrax)

Lingual arch without and with spikes in open-bite case

Lip Bumpers and buccal attachment with LB tubes

Extraoral Forces: The Headgear & Face Mask

Functional Jaw Orthopedic Appliance

Frankfurt Orthopedic Maxillary Appliance (FOMA)

12.30 Lunch

14.00 Introduction to Straight Wire Appliances (Repeat)

Inside the Alexander's Brackets

Modification for Thai patients

Brackets for Class II division 2

THE TREATMENT PHASES

1. The leveling phase:

How should the case look like at the end of the leveling phase?

Leveling of the extraction vs. non-extraction cases

Leveling using round wire

2. The Movement phase

How should the case look like at the end of the movement phase?

Distalization of the maxillary canines are completed.

Side effect of the Distalization (See Biomechanics Manual)

The Row Boat Effect.

Demo. Insertion of the headgear

18.00 Class finish

LAB WORK: CAN BE DONE AS HOME WORK AND INSPECTED AT THE MEETING

Fabrication of the **3-3 retainer** (Direct & Indirect technique) 0.7 mm round SS, hard wire

Day 3 - Friday

9.45 3. The Contraction phase

How should the case look like at the end of the contraction phase?

The contraction arch wires 0.016" x 0.022" SS (CAW 1) or 0.017" x 0.022" SS(CAW 2)

Retraction Technique of the anterior teeth:

Maxillary arch vs. Mandibular Arch (See Biomechanics Manual)

Side effects of the Closing Loop Mechanics. The Bowing Effect and Wire Stiffness

0.017" x 0.025" Supercontraction arch wire

12.30 Lunch

14.00 4. The adjustment phase

How should the case look like at the end of the adjustment phase?

Finishing arch wires with/without tie-back loops

Sweep and the curve of Spee

The action of Sweep and Torque

0.016" x 0.022" or 0.017" x 0.022" SS and tie-back loops

Segmentalizing of the arch wire

5. The retention phase

How should the case look like at the end of the retention phase?

15.30 Class finish

WHAT TO BRING ALONG?

Course participant need to have orthodontic pliers, instruments and material as listed below:

As in course No. 1 - 2

1 Typodont (Articulator) with acrylic white teeth

1 set of 018 slot Mini WICK Brackets

Washbon ORMCO bands with Alexander 1st & 2nd molar attachments,

1 Headgear low pull

TYPODONT SET UP:

Rt. side :in a Class II Molar relationship

Lt. side :in a Class II end-on Molar relationship

Class II div. 2 malocclusion with slightly anterior crowding of max. dentition with retrusion of the central incisors and protrusion of the lateral incisors. Deep-bite

FOR WIRE BENDING EXERCISE

Clinical Pliers Wire Bending Exercise Book

Laboratory pliers

1x Krampong pl. Dentaurem 013-522

1x Heavy wire cutter Dentaurem 044-177

1x Young's pl. Dentaurem 012-074

WIRES:

0.016" SS round wire 0.016" x 0.016" SS

0.016" x 0.022" SS 0.017" x 0.022" SS

LAB WORK: CAN BE DONE AS HOME WORK AND INSPECTED AT THE MEETING

Homework EXERCISE from Course No. 2 : 3-3 RETAINER

Prepare 1 Mand. Model with good anterior teeth alignment

0.7 mm round Dentaurem SS hard wire (provided by the club)

1x #325 pl. SS WHITE or AEZ (or 7765)